

Title (en)

PASSIVE COOLING ARTICLES HAVING A FLUOROPOLYMER SURFACE LAYER

Title (de)

PASSIV GEKÜHLTE ARTIKEL MIT OBERFLÄCHENSCHICHT AUS FLUOROPOLYMER

Title (fr)

ARTICLES DE REFROIDISSEMENT PASSIF AVEC UNE COUCHE DE SURFACE COMPORTANT UN POLYMÈRE FLUORÉ

Publication

EP 3732514 B1 20230920 (EN)

Application

EP 18845317 A 20181221

Priority

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- IB 2018060529 W 20181221

Abstract (en)

[origin: WO2019130199A1] A passive cooling article is disposed on a substrate to cool the substrate. The article includes an outer layer having a high absorbance in the atmospheric window region of the electromagnetic spectrum and having a high transmittance in the solar region of the spectrum. The article also includes a reflector having a high reflectivity in the solar region of the spectrum. At least one of the outer layer and the reflector includes a fluoropolymer. Micro-sized particles or surface structures may be disposed in or on the outer layer or the reflector to improve absorbance. A metallic layer may be disposed between the fluoropolymer and the substrate to be cooled.

IPC 8 full level

G02B 5/08 (2006.01); **G02B 5/20** (2006.01); **G02B 5/22** (2006.01); **G02B 5/26** (2006.01); **F24S 70/225** (2018.01)

CPC (source: EP US)

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